

# ABSTRACT

An electric power generating apparatus (2) for decentralized power supply, which comprises three types of windings and three types of reactors required for deriving the maximum output that meets a wind velocity or a flow velocity to obtain a DC output, has problems that many reactors are required and the winding structure of the permanent magnet type of electric power generator (3) is complicated, so that the number of manufacture processes is large and the cost is high. An electric power generating apparatus for decentralized power supply, which rectifies an AC output of a permanent magnet type of electric power generator driven by a windmill or a waterwheel to provide a DC output, wherein the permanent magnet type of electric power generator comprises two types of windings inducing different voltages, and wherein an AC output from one of the two types of windings exhibiting a higher induced voltage is rectified through a series connected saturated reactor, while an AC output from the other of the two types of windings exhibiting a lower induced voltage is rectified as it is, and the rectification outputs are connected in parallel.